

PATENT
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Arne HOLM et al

Serial No. 09/408,578

Group Art Unit 1646

Filed: September 29, 1999

For: METHOD FOR PREPARING A LIGAND PRESENTING
ASSEMBLY (LPA), AN LPA AND USES THEREOF

INFORMATION DISCLOSURE STATEMENT

Asst. Commissioner of Patents
Washington, D.C. 20231

Sir:

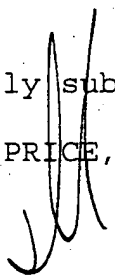
As a means of complying with the duty of disclosure under 37 CFR §1.56, and in accordance with 37 CFR §§1.97 and 1.98, Applicants, through the undersigned attorney, submit this Information Disclosure Statement. The patents, publications or other information submitted herewith are listed on the attached Form PTO-1449.

In accordance with 37 CFR §1.97(b)(3), this Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits of the above-identified application. Accordingly, no fee is due.

Respectfully submitted,

JACOBSON, PRICE, HOLMAN & STERN

By:


D. Douglas Price
Reg. No. 24,514

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 400 SEVENTH STREET, N.W.
 WASHINGTON, D.C. 20004-2201

LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.: P63882US0 GROUP ART UNIT: 1646
 SERIAL NO.: 09/408,578 FILING DATE: September 29, 1999
 APPLICANT(S): Arne HOLM et al

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE (If Appropriate)
	AA	4,608,251	08-26-86	Mia	424	85
	AB	4,601,903	07-22-86	Frasch	424	92
	AC	4,599,231	07-08-86	Milich et al	424	89
	AD	4,599,230	07-08-86	Milich et al	424	89
	AE	4,596,792	06-24-86	Vyas	514	21

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION (YES) (NO)
	AF	WO95/01441	01-12-95	WIPO		:
	AG	WO97/42221	11-13-97	WIPO		:
	AH	WO98/15648	04-16-98	WIPO		:
	AI	WO98/32469	07-30-98	WIPO		:
	AJ	WO94/02506	02-03-94	WIPO		:
	AK	WO93/24523	12-09-93	WIPO		:

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AL	Nyfeler, R., "Peptide Synthesis via Fragment Condensation", METHODS IN MOLECULAR BIOLOGY, Chapt. 15, 1994, pp. 303-316
AM	Marshall, G.R., "A Hierarchical Approach to Peptidomimetic Design", TETRAHEDRON, Vol. 49, No. 17, 1993, pp. 3547-3558
AN	Tuchscherer, G. et al, "Templates in Protein de novo Design", JOURNAL OF BIOTECHNOLOGY, 41, 1995, pp. 197-210
AO	Alberts, D.P. et al, "Synthesis of a novel hematopoietic Peptide, SK&F 107647", PEPTIDES: CHEMISTRY, STRUCTURE AND BIOLOGY, 1993, pp. 367-369
AP	Lange, M. et al, "Synthesis and Activity of Dimeric Bradykinin Antagonists Containing Diaminodicarboxylic Acid Bridge Residues" JOURNAL OF PEPTIDE SCIENCE, 4, 1996, pp. 289-293

EXAMINER

DATE CONSIDERED

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

JACOBSON, PRICE, HOLMAN & STERN, PLLC
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- BA Bhatnagar, P.R. et al, "Structure-Activity Relationships of Novel Hematoregulatory Peptides", J. MED. CHEM., 1996, 39, pp. 3814-3819
- BB Drijfhout, J.W. et al, "A new synthetic functionalized antigen carrier", INT. J. PEPTIDE PROTEIN RES., 37, 1991, pp. 27-32
- BC Defoort, J. et al, "A rational design of synthetic peptide vaccine with a built-in adjuvant", INT. J. PEPTIDE PROTEIN RES., 40, 1992, pp. 214-221
- BD Lu, Y. et al, "Chemically unambiguous peptide immunogen: preparation, orientation and antigenicity of purified peptide conjugated to the multiple antigen peptide system", MOLECULAR IMMUNOLOGY, Vol. 28, No. 6, 1991, pp. 623-630
- BE Keah, H. et al, "Direct synthesis and characterisation of multi-dendritic peptides for use as immunogens, J. PEPTIDE RES., 51, 1998, pp. 2-8
- BF Nardelli, B. et al, "Oral administration of an antigenic synthetic lipopeptide (MAP-P3C) evokes salivary antibodies and systemic humoral and cellular responses", VACCINE, Vol. 12 No. 14, 1994, pp. 1335-1343
- BG Nardelli, B. et al, "A chemically defined synthetic vaccine model for HIV-1", THE JOURNAL OF IMMUNOLOGY, Vol. 148, No. 3, February 1, 1992, pp. 914-920
- BH Sarin, V. et al, "Quantitative Monitoring of Solid-Phase Peptide Synthesis by the Ninhydrin Reaction", ANALYTICAL BIOCHEMISTRY, 117, 1981, pp. 147-157
- BI Heegaard, P. et al, "A Stem Peptide Carrier for the Immuno-Genic Presentation of Peptides", INNOVATION AND PERSPECTIVES IN SOLID PHASE SYNTHESIS, Chapt. 32, 1998, pp. 143-146
- BJ Tam, J., "Synthesis and Applications of Branched Peptides in Immunological Methods and Vaccines", EPITOPE MAPPING WITH PEPTIDES IN PEPTIDES: SYNTHESIS, STRUCTURES, AND APPLICATIONS, Chapt. 12, 1995, pp. 455-499
- BK Hodge, P. "Polymer science branches out", NATURE, Vol. 362, 4 March 1993, pp. 18-19

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SERIAL NO.: 09/408,578 FILING DATE: September 29, 1999
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CA Tomalia, D. et al, "Starburst Dendrimers: Molecular-Level
Control of Size, Shape, Surface Chemistry, Topology, and
Flexibility from Atoms to Macroscopic Matter", ANGEW. CHEM.
INT. ED. ENGL. 29, 1990, pp. 138-175

CB Tam, J. "Recent advances in multiple antigen peptides",
J. IMMUN. METHODS, 196, 1996, pp. 17-32

CC PCT/US90/02039 (copy not available)

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Arne HOLM et al

Serial No. 09/408,578

Group Art Unit 1646

Filed: September 29, 1999

For: METHOD FOR PREPARING A LIGAND PRESENTING
ASSEMBLY (LPA), AN LPA AND USES THEREOF

SECOND INFORMATION DISCLOSURE STATEMENT

Asst. Commissioner of Patents
Washington, D.C. 20231

Sir:

As a means of complying with the duty of disclosure under 37 CFR §1.56, and in accordance with 37 CFR §§1.97 and 1.98, Applicants, through the undersigned attorney, submit this Information Disclosure Statement. The publication submitted herewith is listed on the attached Form PTO-1449.

In accordance with 37 CFR §1.97(b)(3), this Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits of the above-identified application. Accordingly, no fee is due.

Respectfully submitted,

JACOBSON, PRICE, HOLMAN & STERN

By: 

D. Douglas Price
Reg. No. 24,514

400 Seventh Street, N.W.
Washington, D.C. 20004
(202) 638-6666
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LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.: P63882US0 GROUP ART UNIT: 1646
SERIAL NO.: 09/408,578 FILING DATE: September 29, 1999
APPLICANT(S): Arne HOLM et al

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE (If Appropriate)
_____	AA	_____	_____	_____	_____	_____
_____	AB	_____	_____	_____	_____	_____
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FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION (YES) (NO)
_____	AL	<u>WO98/11125</u>	<u>03-19-98</u>	_____	_____	_____
_____	AM	_____	_____	_____	_____	_____
_____	AN	_____	_____	_____	_____	_____
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_____	AP	_____	_____	_____	_____	_____
_____	AQ	_____	_____	_____	_____	_____

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

_____	AR	_____
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EXAMINER

DATE CONSIDERED

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Arne HOLM

Serial No.: 09/498,578

Group Art Unit: 1627

Filed: September 29, 1999

Examiner: T. Wessendorf

For: METHOD FOR PREPARING A LIGAND PRESENTING ASSEMBLY (LPA), AN LPA
AND USES THEREOF

THIRD INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner of Patents
Washington, DC 20231

Sir:

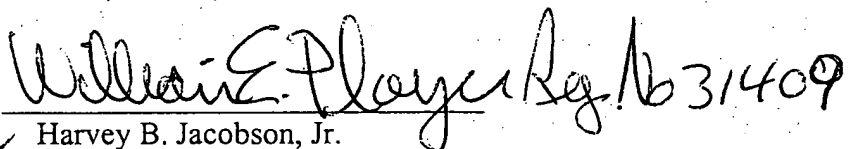
As a means of complying with the duty of disclosure under 37 CFR §1.56, and in accordance with 37 CFR §§1.97 and 1.98, Applicant(s), through the undersigned attorney, submits this Information Disclosure Statement. WO 90/11778, relevance of which is discussed at page 2 of the specification is submitted, herewith, and listed on the attached Form PTO-1449.

In accordance with 37 CFR §1.97(b)(3), this Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits of the above-identified application.

Respectfully submitted,

JACOBSON, PRICE, HOLMAN & STERN

By:


for Harvey B. Jacobson, Jr.
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Sheet 1 of 1

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

LIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)

Date Submitted to PTO: May 2, 2001

ATTY DOCKET NO.:

P63882US0

SERIAL NO.:

09/408,578

APPLICANT: Arne HOLM

FILING DATE: 9-29-99

GROUP: 1627

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
90/11778	10-18-90	WIPO (WO)			

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

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DATE CONSIDERED

JACOBSON, PRICE, HOLMAN & STERN, PLLC
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	AI WO98/32469	07-30-98	WIPO			:
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	AK WO93/24523	12-09-93	WIPO			:

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tdw

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AN	Tuchscherer, G. et al., "Templates in Protein de novo Design", JOURNAL OF BIOTECHNOLOGY, 41, 1995, pp. 197-210
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- JPW*
- BA Bhatnagar, P.R. et al, "Structure-Activity Relationships of Novel Hematopoietic Peptides", J. MED. CHEM., 1996, 39, pp. 3814-3819
- BB Drijfhout, J.W. et al, "A new synthetic functionalized antigen carrier", INT. J. PEPTIDE PROTEIN RES., 37, 1991, pp. 27-32
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- BK Hodge, P., "Polymer science branches out", NATURE, Vol. 362, 4 March 1993, pp. 18-19
- Not on file*

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J. IMMUN. METHODS, 196, 1996, pp. 17-32
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Notice of References Cited	Applicant/Patent Holm t al	Application/Control No. 09/408,578	
	Examiner T. W ssendorf	Art Unit 1627	Page 1 of 1

U.S. PATENT DOCUMENTS

*	Document Number <small>Country Code-Number-Kind Code</small>	Date <small>MM-YYYY¹</small>	Name	Classification ²
	A			
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FOREIGN PATENT DOCUMENTS

*	Document Number <small>Country Code-Number-Kind Code</small>	Date <small>MM-YYYY¹</small>	Country	Name	Classification ²
	N				
	O				
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	R				
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	T				

NON-PATENT DOCUMENTS

*	Include, as applicable: Author, Title, Date, Publisher, Edition or Volume, Pertinent Pages
	U Mihara et al, J. Chem. Soc. Perkin Trans. (1995), 6, 1133-40.
X	V Lange et al, Jnl. of Pept. Sci. (1998), 4, 289-293.
	W Gilon et al, Peptide Chemistry, 1992, Proc. Jpn. symp. 2nd. (1993), Meeting date, 1992, 482-485
	X

* A copy of this reference is not being furnished with this Office action. See MPEP § 707.05(a).

¹ Dates in MM-YYYY format are publication dates.

² Classifications may be U.S. or foreign.